

# 3M™ High-Speed Cable Assembly Solutions

High-speed cable assemblies are essential for the efficient operation of systems which process large volumes of data. For high performance computing, routers, storage and switches, 3M has the cabling solutions you need to connect devices with the latest industry standard physical interfaces.

- Utilizing 3M™ Twin Axial Cable technology: Highly-routable, foldable, flexible
- Thin, low profile ribbon cable allows more routing options within a case, and enables many packaging configurations
- Foldable ribbon construction allows for extremely tight bend radii with minimal performance impact

## Internal Cable Assemblies

### 3M™ SlimLine Twin Axial Cable Assembly (SFF-8654)

- x4 and x8 configurations
- SFF-8654 straight and right angle
- Signal wire size 30AWG and 31AWG
- Standard lengths 0.5 m, 0.75 m, and 1 m
- PCIe (85 ohm) applications
- Custom folded assemblies available



### Internal miniSAS Cable Assembly, Series 8F36 / 8F68 / 8S36

- x4 (36-position) and x8 (68-position) configurations
- SFF-8087 straight (contact 3M regarding right angle and side exit)
- SFF-8087 to 7-position SATA fan-out assemblies
- Signal wire size 30AWG, available in either silver or tin
- Available with and without sidebands
- SAS (100 ohm) applications
- SFF-8087 hybrid to SATA
- Standard lengths available up to 1 m
- Custom folded assemblies available



### Internal miniSAS HD Cable Assembly, Series 8US4 / 8UH4

- x4 configuration
- SFF-8643 straight short body, straight, and right angle
- SFF-8643 hybrid to SFF-8087
- Signal wire size 30AWG
- Available with or without sidebands
- Available with mesh sleeve
- SAS (100 ohm) applications (contact 3M regarding PCIe 85 ohm applications)
- Standard lengths available up to 1 m
- Custom lengths available



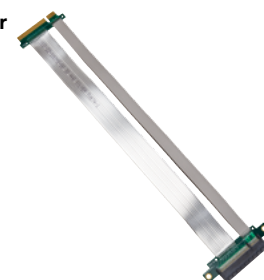
### Internal SATA Cable Assembly, Series 5602

- 7-position configuration
- Straight and right angle with either passive or active latch
- Signal wire size 30AWG
- SATA (100 ohm) applications
- Standard lengths available up to 1 m



### Internal PCI Express Extender and Jumper Cable Assemblies, Series 8K

- x4, x8 and x16 configurations
- Signal wire size 30AWG
- Includes aux signals
- PCIe (85 ohm) applications
- Standard lengths 0.25 m and 0.5 m



# External Cable Assemblies

## External miniSAS Cable Assembly, Series 8G26

- x4 configuration
- SFF-8088
- Signal wire size 30AWG and 28AWG
- SAS (100 ohm) applications
- Various keying options and custom cable lengths available
- Standard lengths available up to 6 m



## External SFP+ Cable Assembly, Series: 1410 / 1412

- SFF-8431 and SFF-8432
- Signal wire size 30AWG and 26AWG
- Standard lengths available up to 7 m
- 10G Ethernet applications
- Available in black, red or blue PVC jacket options
- Custom EEPROM mapping available



## External QSFP+ Cable Assembly, Series 9Q

- SFF-8436
- Signal wire size 30AWG
- Standard lengths available up to 3 m
- 40G Ethernet applications
- InfiniBand DDR (4x5Gbps), QDR (4x10Gbps) and FDR (4x14Gbps) applications
- Custom EEPROM mapping available



## External SFP28 Cable Assembly, Series: 1422 – coming soon

- IEEE 802.3by and SFF-8431
- Tested at Open Network Systems Interoperability PlugFest (UNH IOL)
- Signal wire size 30AWG and 26AWG
- Standard lengths available up to 4 m
- 25G Ethernet applications
- Available in black (red or blue PVC jacket options available)
- Custom EEPROM mapping available



## External QSFP28 Cable Assembly, Series 9Q – coming soon

- IEEE 802.3bj and SFF-8665, -8661, -8662
- Tested at Open Network Systems Interoperability PlugFest (UNH IOL)
- Signal wire size 30AWG and 26AWG
- Standard lengths available up to 4 m
- 100G Ethernet applications
- Custom EEPROM mapping available
- QSFP28 (100G) to 4xSFP28 (25G) break out assemblies available
- QSFP28 (100G) to 2xQSFP28 (50G) Y-cable assemblies available



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